

## All Polynomial Operations #1

Date \_\_\_\_\_ Period \_\_\_\_\_

**Simplify each expression.**

1)  $(-8v^4 + 5 - 4v) - (8v^4 + 8v + 6v^3)$

2)  $(-4r^2 - 3r + 2) + (7r + 8r^4 - 7)$

3)  $(-3v^2 + v^3 - 5v^4) + (8v^2 + 4v^4 + v^3)$

4)  $(7x - 2x^3 - 8x^2) - (-5x^4 + x^3 - 4x^2)$

5)  $-4(x - 5)$

6)  $5m^3(5m^2 - 4m - 5)$

7)  $(2x^3 - 4x) - (-5x^4 + 7x^3 - 2x - 6)$

8)  $(3 + 3m^2) - (-4m - 5m^4 - 2m^2 + 4)$

9)  $(2x + 6)^2$

10)  $(-5n + 7)(n - 8)$

11)  $(6m + 8)(-5m - 6)$

12)  $(4m + 3)(-7m + 5)$

13)  $(1 - 8r^3 + 8r^2) + (-r^4 - r^3 - r^2 + 6)$

14)  $(-2m + 2m^2 - 8) - (-2m - 2 + 2m^3 + m^2)$

15)  $-8(8x^2 - 5x - 5)$

16)  $-2x(5x^2 - 3x - 1)$

17)  $(3v + 5)(5v + 2)$

18)  $(-6r - 5)(5r - 1)$